

In the claims:

~~Claim 1 (Fourth amendment). I claim an improved~~  
access system for multiple programs delivered in compressed  
form on a delivery channel, said access system including at  
least one of the multiple programs being delivered without a  
user's specific request, at least one of said multiple  
programs including at least some displayable information,  
said access system further including:

means for recording the programs in a data storage  
medium at the user's location, means for the user to select a  
particular program from the data storage medium at the user's  
location and means to decompress said particular program for  
use by the user before or after storage, which use can include  
display of a particular program including at least some  
displayable information.

~~Claim 2. I claim the access system of claim 1~~  
characterized in that there is one storage medium for storing  
multiple programs delivered on a schedule over which the user  
has no control.

Claim 3. I claim the access system of claim 1  
characterized in that the programs are stored in a compressed  
format.

Claim 4. I claim the access system of claim 1  
characterized by the addition of program information delivered  
to and stored at the user's location and means to access said  
program information.

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~~Claim 5. I claim the access system of claim 4 characterized by the addition of data manager means to allow user to access the program.~~

~~Claim 6 (Fourth amendment). I claim a system having multiple programs delivered in a compressed form on a delivery media together with program identification data to a user at a given user location, at least one of said multiple programs including at least some displayable information other than ASCII text, the system including:~~

~~means at the given user location to record program identification data for the multiple programs,~~

~~means at the same given user location to access the recorded program identification data for the multiple programs, means at the same given user location to process the recorded program identification data to allow selective access to at least one of the multiple programs,~~

~~and means for the user to use said at least one of the multiple programs, which use of such programs can include display of the program including said at least some displayable information other than ASCII text.~~

~~Claim 7. I claim the system of claim 6 characterized in that the multiple programs and program identification data are delivered contemporaneously and by the addition of means to delay the programs to allow processing of the program identification data.~~

~~Claim 8. I claim the system of claim 6~~  
characterized by the addition of data manager means to process  
the program identification data.

~~Claim 9. I claim the access system of claim 6~~  
characterized by the addition of data manager means to allow  
the user to access the programs.

~~Claim 10 (Fourth amendment). I claim an improved~~  
system for delivering multiple programs in a compressed form  
via a delivery channel from a site to a particular user's  
location without the particular user's control, at least one  
of said multiple programs including at least some information  
other than ASCII text, said improvement including:

[characterized by] the addition of means to store at  
least certain of the multiple programs in [their] compressed  
form at the particular user's location and means at the  
particular user's location to selectively access and  
decompress the programs at that location respectively, said  
access including [viewing] displaying the programs, which  
displaying can include the program including at least some  
information other than ASCII text.

~~Claim 11. I claim the access system of claim 10~~  
characterized in that said means to store the programs  
includes an optical storage medium.

~~Claim 12. I claim the access system of claim 10~~  
characterized in that said means to store the programs  
includes computer memory.

Claim 13. I claim the access system of claim 10  
characterized in that the programs are compressed in a MPEG  
type form and means to selectively decompress said MPEG type  
signals.

~~Claim 14 (Fourth amendment). I claim an access~~  
system having a storage capability with a limited capacity,  
the improvement [of] including:

means to store materials in the storage having a  
limited capacity, [and] overwrite means to automatically  
overwrite previously stored material including at least some  
material which has not been previously accessed based on  
determinable criteria developed from a known set of  
priorities,

said known set of priorities [including] which  
includes at least one priority other than the currency of the  
materials.

~~Claim 15. I claim the system of claim 14~~  
characterized in that said overwrite means includes  
consideration of available storage.

Claim 16. I claim the system of claim 14  
characterized in that said overwrite means includes  
~~consideration of the time the program was stored.~~

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~~Claim 17. I claim the system of claim 14 wherein there are multiple users having a priority and characterized in that said overwrite means includes consideration of the multiple user's priority.~~

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~~Claim 19 (Fourth amendment). I claim an access system having a storage capability for programs, the improvement [of] including:~~

~~means to store programs in the storage area, [and] means to automatically allow access for storage of programs in previously utilized storage area upon occurrence of a certain event other than the accessing of the [then] stored program in such storage area, [and] with at least one of said programs including at least some information other than contained in ASCII text.~~

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~~Claim 20. I claim the access system of claim 19 characterized in that said certain event is the arrival of a certain time subsequent to the time of a particular program's storage.~~

Claim 21 (Fourth amendment). I claim an access system having an ability to reproduce an accessible program having frequency related information with a certain intended run time of presentation, for a user requiring a different run time of presentation, [

]the improvement including:

~~means to select the accessible program from multiple programs and means to alter the frequency of the frequency~~

*Sub H2*

~~related information to automatically compensate for the different run time of presentation and thus the certain run time of presentation of the accessible program to the different run time.~~

Claim 22. I claim the access system of claim 21 wherein the different run time is determined by the user's interruption of access to the programs.

*Ex Cons Sub H3*

~~Claim 23. I claim the access system of claim 22 characterized in that said accessible program would normally terminate at a time certain and characterized in that said means alters the different run time so as to terminate said accessible program at the same time as said time certain.~~

Claim 24. I claim the access system of claim 23 characterized in that said means is automatic.

*Sub H4*

~~Claim 25 (Fourth amendment). I claim an access system for multiple programs delivered in compressed form across a delivery channel, the multiple programs include at least one program delivered without a given user's request therefor, [~~

~~]a program data stream, said program data stream including at least some information other than ASCII text, said access system including;~~

~~means at the given user's location to select a particular program from said program data stream without off location contact,~~

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~~means to record said selected program in a data storage media, and means to decompress said selected program for [viewing] display, said display which can include display of the program including said at least some information other than ASCII text.~~

E4 Cont Sub 26

~~Claim 26. I claim the system of claim 25 characterized in that program identification data is also delivered for those programs delivered without a given user's request,~~

~~the multiple programs and program identification data being delivered substantially contemporaneously and by the addition of means to delay the programs to allow processing of the program identification data.~~

~~Claim 27. I claim the system of claim 26 characterized by the addition of data manager means to process the program identification data.~~

~~Claim 28 (Third amendment). I claim an access system having a storage area for programs, the improvement [of] including:~~

~~means to record at least part of a given program in the storage area, means to access at least part of said given program from the storage area so as to select reproduction thereof and means to record programs at the same time as said reproduction [to record programs including] which recording can include the remainder of said given program and/or another program in the storage area.~~

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~~Claim 29. I claim an access system having a~~  
decompression circuit and an artifact producing circuit, the  
improvement of an artifact modifier circuit,

means to pass programs through the decompression  
circuit and then through said artifact modifier circuit, and  
means to selectively bypass the artifact modifier circuit when  
the artifact producing circuit is inactive.

Claim 30. I claim the access system of claim 29  
characterized in that the decompression decoder is a MPEG type  
decoder.

Claim 31. I claim the access system of claim 29  
characterized in that the artifact modifier circuit is a  
frequency converter means.

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~~Claim 33 (Fourth amendment). I claim an access~~  
system having multiple channels of information for delivery of  
programs to a remote location, the improvement [of] including:

a data manager, said data manager being located at  
said remote location,

said data manager having a memory for storing access  
information relative to the delivered information including  
information relative to at least one delivered upcoming  
program,

and means for said data manager to selectively  
control access to the information on the multiple channels for  
~~presentation of said programs [at said remote location]~~



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~~including] which can include the display of said at least one  
delivered upcoming program at said remote location.~~

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~~Claim 34. I claim the access system of claim 33  
characterized by the addition of a data storage for the  
channels of information.~~

Claim 35. I claim the access system of claim 33  
characterized by the addition of program information relative  
to the multiple channels of information and means for said  
data manager to utilize such program information.

Claim 36. I claim the access system of claim 33  
characterized by the addition of other services and means for  
said data manager to access said other services.

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~~Claim 37 (Third amendment). I claim an improved  
access system for a particular user to access multiple  
programs delivered in compressed form via a delivery channel,  
at least one of said multiple programs including at  
least some information other than ASCII text,  
said access system including program information  
delivered to the particular user at the given location,  
means for recording multiple programs in a  
compressed format in a data storage medium at the given  
location,  
means at the given location for the particular user  
to access said program information and to select a particular  
program for presentation at the given location,~~

and means to decompress said particular program for display which can include the display of said at least some information other than ASCII text.

~~Claim 38. I claim the access system of claim 37 characterized by the addition of data manager means to allow the user to access the program.~~

~~Claim 39 (Third amendment). I claim a system having multiple programs transmitted in a compressed form via a transmission media with program identification data [at least periodically ]transmitted to a particular user at a given location,~~

~~at least one of the programs including at least some information other than ASCII text,~~

~~the system including means at the given location for the particular user to directly access the program identification data,~~

~~means to delay the programs to allow processing of the program identification data, means to process the program identification data at the given location,~~

~~and data manager means at the given location to process the program identification data and to allow the particular user to selectively access the programs at the given location, which access can include the display of said at least some information other than ASCII text.~~

~~Claim 40 (Third amendment). I claim an improved system for a multiplicity of programs transmitted in a~~

~~compressed form on a transmission channel characterized by the addition [of] including:~~

~~means to store said multiplicity of programs in their compressed form at a given location,~~

~~at least one of said multiplicity of programs including at least some information other than ASCII text,~~

~~said means to store the programs including an optical storage medium,~~

~~and means to selectively access and decompress the programs from said means to store the programs at said given location, which storage can include said at least some information other than ASCII text.~~

~~Claim 41. I claim the access system of claim 40 characterized in that the programs are compressed in a MPEG type form and means to selectively decompress said MPEG type signals.~~

~~Claim 42. I claim the access system of claim 40 characterized in that there are a number of sets of multiplicity programs that can be selectively stored.~~

~~claim 43 (Second amendment). I claim an improved access system for programs delivered via one or more delivery channels,~~

~~said access system [comprising] including:~~

~~a program data storage, said program data storage recording at least selected ones of the delivered programs,~~

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~~a user control, said user control selectively~~  
retrieving said selected ones of the delivered program from  
said program data storage,

and said program data storage simultaneously  
recording other selected portions of the delivered programs as  
said selected portion is being selectively retrieved by said  
user control.

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~~Claim 44. I claim the access system of claim 43~~  
characterized in that said selected portion and at least one  
of said other selected portions are from the same program.

Claim 45. I claim the access system of claim 43  
characterized in that said selected portion and at least one of  
said other selected portions are from different programs.

Claim 46. I claim the access system of claim 44  
wherein the program of which said selected portion is a part,  
said program has a normal presentation conclusion  
time from initial retrieval and characterized in that the  
retrieval of said selected portion can be selectively  
interrupted by the user for a period,

any retrieval of said selected portion can be  
accelerated to compensate for said period, and said  
acceleration allowing the program to end at the normal  
presentation conclusion time.

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~~Claim 47. I claim the access system of claim 46 wherein the program has a frequency and characterized by a frequency shift means, and said frequency shift means altering the frequency of any accelerated portion to be substantially equal to the frequency of the program.~~

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~~Claim 48 (Second amendment). I claim an improved access system for programs transmitted via one or more transmission channels, said access system [comprising] including:~~

- ~~a data manager, said data manager being located at a particular user's given location,~~
- ~~a data stream, said data stream passing via a delivery channel for recording in said data manager,~~
- ~~a user control, said user control allowing access to the data in said data manager,~~
- ~~a program data storage, said program data storage recording at least some of one or more of the programs transmitted on the transmission channel without any active selection by the user,~~
- ~~at least one of said programs including at least some information other than ASCII text,~~
- ~~and means for the user at said given location to use the data in said data manager to retrieve selected portions of the programs in said program data storage, which retrieval can include the display of said at least some information other than ASCII text.~~

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~~Claim 49. I claim the access system of claim 48~~  
~~characterized in that said data stream includes information of~~  
~~upcoming programs.~~

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~~Claim 50. I claim the access system of claim 48~~  
~~characterized in that said user control can be selectively~~  
~~programmed to automatically record programs in said program~~  
~~data storage based on the data in said data manager.~~

Claim 51. I claim the access system of claim 48  
characterized in that substantially all of the programs  
transmitted on a transmission channel at transmitted without  
any user's control.

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Claim 52. I claim the access system of claim 51  
characterized in that the programs are substantially  
continually transmitted.

Claim 53. I claim the access system of claim 48  
characterized in that said program data storage can record  
programs and the user can retrieve a program from said program  
data storage at the same time.

Claim 54 (First amendment). I claim the access  
system of claim 48 wherein the program of which said selected  
portion is a part, has a normal presentation conclusion time  
from initial retrieval and characterized in that the retrieval  
of said selected portion can be ~~selectively suspended by the~~  
user for a period of time,

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~~any retrieval of said selected portion can be automatically accelerated to compensate for said period of time,~~

and said acceleration allowing the program to end at the normal presentation conclusion time.

Claim 55. I claim the access system of claim 54 wherein the program has an original frequency and characterized by frequency shift means,

said frequency shift means altering the frequency of any accelerated portion to be substantially equal to the ~~original frequency of the program.~~

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~~Claim 56 (Second amendment). I claim an improved access system for programs transmitted on one or more transmission channels, said access system [comprising] including:~~

a data manager, said data manager being located at a particular user's given location,

a data stream, said data stream passing via a delivery channel for [recording in] access at the direction of said data manager,

a user control, said user control allowing access to the data in said data manager,

a program data storage, said program data storage recording at least some of one or more of the programs transmitted on the transmission channel without any active selection of individual ones of the specific programs by the user,

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~~at least one of said programs including at least~~  
some information other than ASCII text,

and select means at said given location for said  
data manager to use the data in said data manager to  
automatically record selected portions of the transmitted  
programs in said program data storage, which recording can  
include said at least some information other than ASCII text.

~~Claim 57. I claim the access system of claim 56~~  
characterized in that said select means is programmed to  
discard programs recorded in said program data storage  
including programs not yet retrieved according to a known set  
of priorities.

Claim 58. I claim the access system of claim 57  
characterized in that said known set of priorities includes  
the available recording room in said program data storage.

Claim 59. I claim the access system of claim 57  
characterized in that said known set of priorities are ranked  
in an order of preference.

Claim 60. I claim the access system of claim 56  
characterized in that said known set of priorities may be  
changed from time to time.

Claim 61. I claim the access system of claim 55  
characterized in that ~~said select means is programmed to~~

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~~record transmitted programs in said program data storage~~  
according to a selection algorithm.

Claim 62. I claim the access system of claim 60 characterized in that said selection algorithm includes one or more of consideration of the desirability of the program to the user,

the number of users for a program, the time of the program, the relation of the program to programs previously stored, the content of the program, the particular channel for the program and/or the availability of removable storage.

Claim 63. I claim the access system of claim 61 characterized in that said select means is programmed to discard or record over previously recorded programs in said program data storage including not retrieved programs according to a known set of priorities.

Claim 64. I claim the access system of claim 63 characterized in that said known set of priorities includes the available recording room in said program data storage.

Claim 65. I claim the access system of claim 63 characterized in that said known set of priorities are ranked in an order of preference.

Claim 66. I claim the access system of claim 63 characterized in that said known set of priorities may be ~~changed from time to time.~~